

**Notice of Allowability**

Application No.

10/779,830

Examiner

Ramnandan Singh

Applicant(s)

YOUNCE ET AL.

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Feb 26, 2008.
2. ☒ The allowed claim(s) is/are 14-44.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

### **DETAILED ACTION**

1. This action is in response to applicant's response filed on Feb 26, 2008. **Claims 14-44** are pending in the present application.

#### **2. Preliminary Amendment**

The Preliminary amendment filed on Feb 17, 2004 is approved. Subsequently, the objection to the specification is withdrawn..

### ***Drawings***

3. The Applicants' arguments regarding the objection to the drawings are persuasive. As a result, the objection is withdrawn.

### ***Claim Rejections - 35 USC § 112***

4. Since the applicants' arguments regarding the claim rejection under USC 112, First Paragraph, are persuasive, the rejection is withdrawn.

### **REASONS FOR ALLOWANCE**

5. The following is an examiner's statement of reasons for allowance:

Claim 1 recites a method for processing filter tap coefficients in an echo canceller and limitations for the following: "adapting high-energy filter tap coefficients and low-energy filter tap coefficients using adjustable gain constants, based on an occurrence of a first predetermined condition; and separately adapting the high-energy filter tap coefficients from the low-energy filter tap coefficients based on an occurrence of a second predetermined condition". Examiner interprets a first predetermined condition and a second determined condition as described in the specification on page 19, line 18 through page 28, line 7. Fig. 6 illustrates these two conditions. Further, Fig. 7 depicts energy distribution among tap coefficients. The specification supports these limitations [Fig. 6, pages 19 through 28; Fig. 7, page 28, line 8 through page 30, line 5]. In this context, the applicants' arguments are persuasive. The prior art of record does not teach these limitations. Therefore, claim 14 and its dependent claims are indicated allowable.

Claims 21 and 28 are essentially similar to claim 14 and hence are indicated allowable. Claims 22-27, 39-40, 44 being dependent from claim

21, and claims 29-35 being dependent from claim 28 are also indicated allowable.

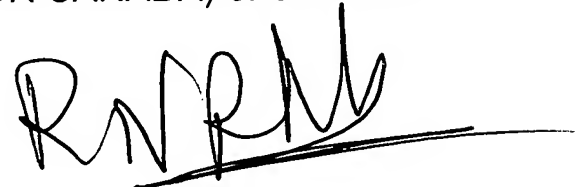
New search updates reveal no other prior art which teaches the limitations in the context of the claims.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramnandan Singh whose telephone number is (571) 272-7529. The examiner can normally be reached on M-TH (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on (571) 272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'R. Singh', with a horizontal line drawn underneath it.

Ramnandan Singh  
Primary Examiner  
Art Unit 2614

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